SERVICE MANUAL SC500

marantz®

model SC500

Stereo Control Console

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail prive quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

EUROPE

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
193 London Road
Staines, Middlesex
United Kingdom

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

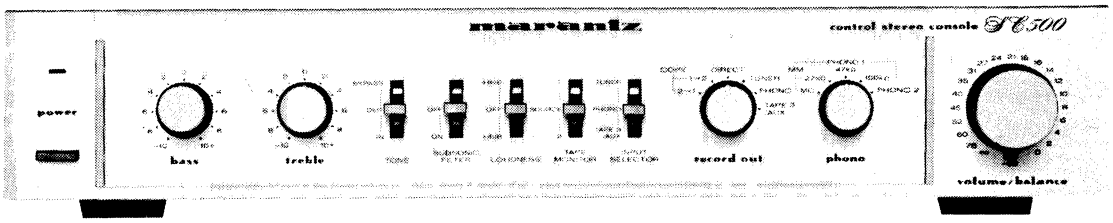
Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Franzengatan 6
10425 Stockholm
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

MODEL SC500 STEREO CONTROL CONSOLE



1. INTRODUCTION

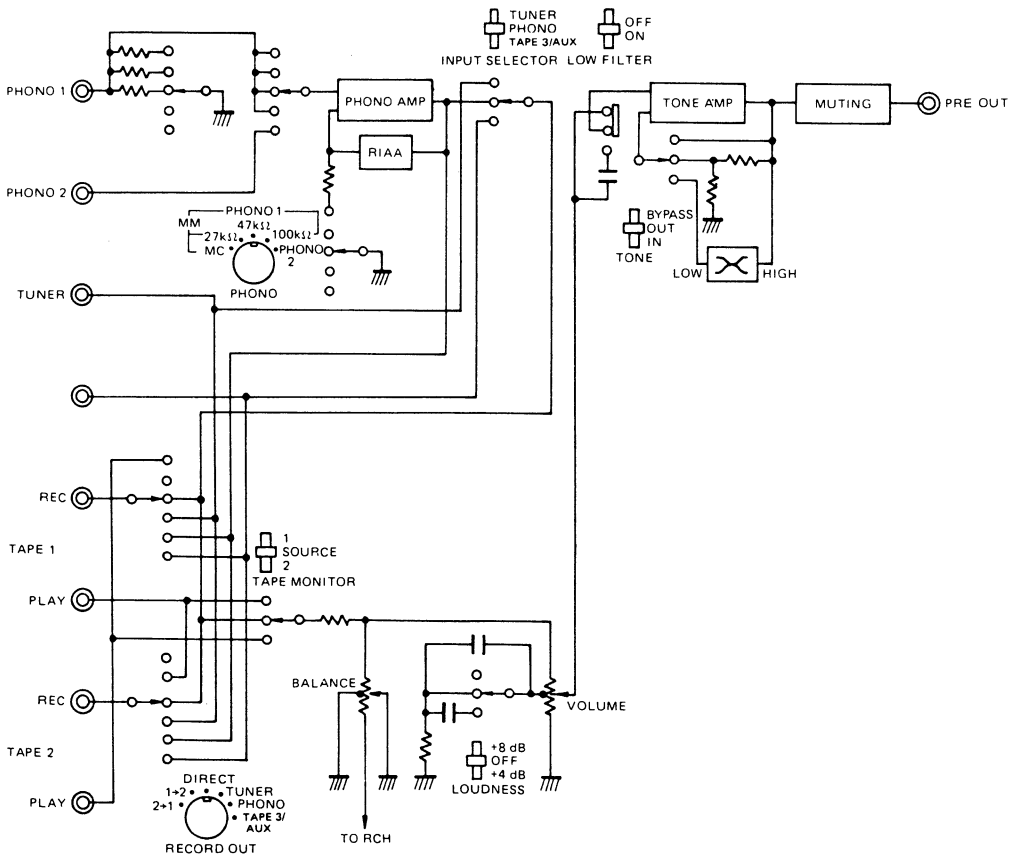
This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SC500 Stereo Control Console.
Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operations in the Tuner.
The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

2. P.W. BOARDS

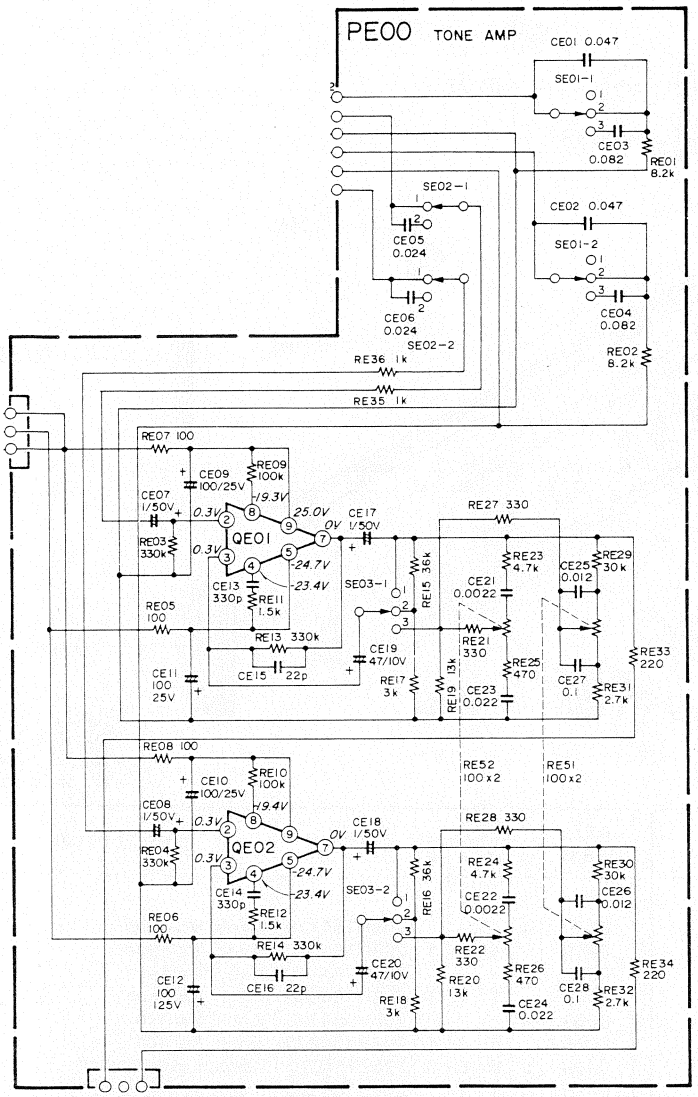
As can be seen from the circuit diagram, the chassis of Model SC500 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

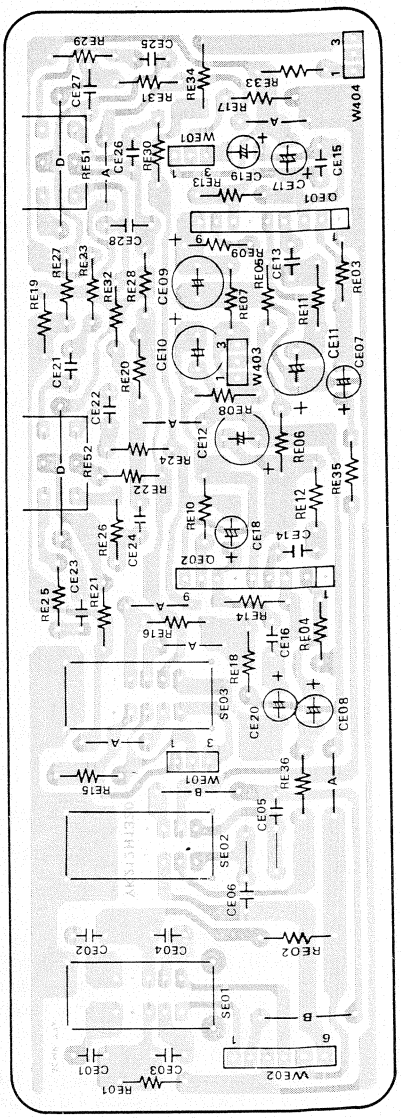
1. Phono Amp . . . . .mounted on P.W. Board P400
2. Tone Control . . . .mounted on P.W. Board PE00
3. VR . . . . . .mounted on P.W. Board PG00

3. BLOCK DIAGRAM

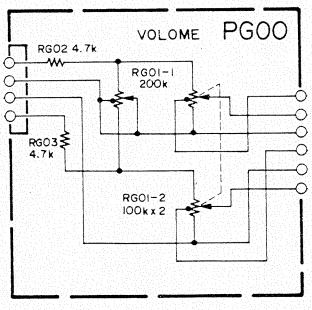


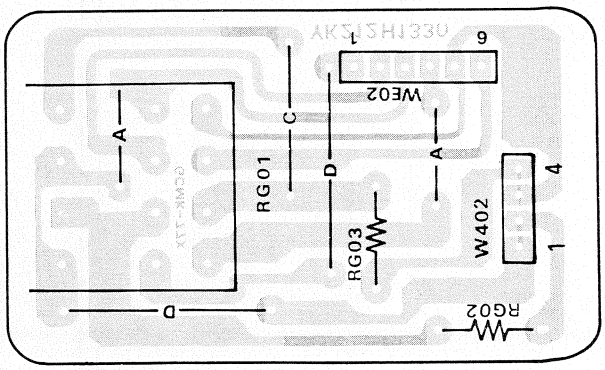
4.2 Tone Control Assembly (PE00) Schematic Diagram and Component Locations





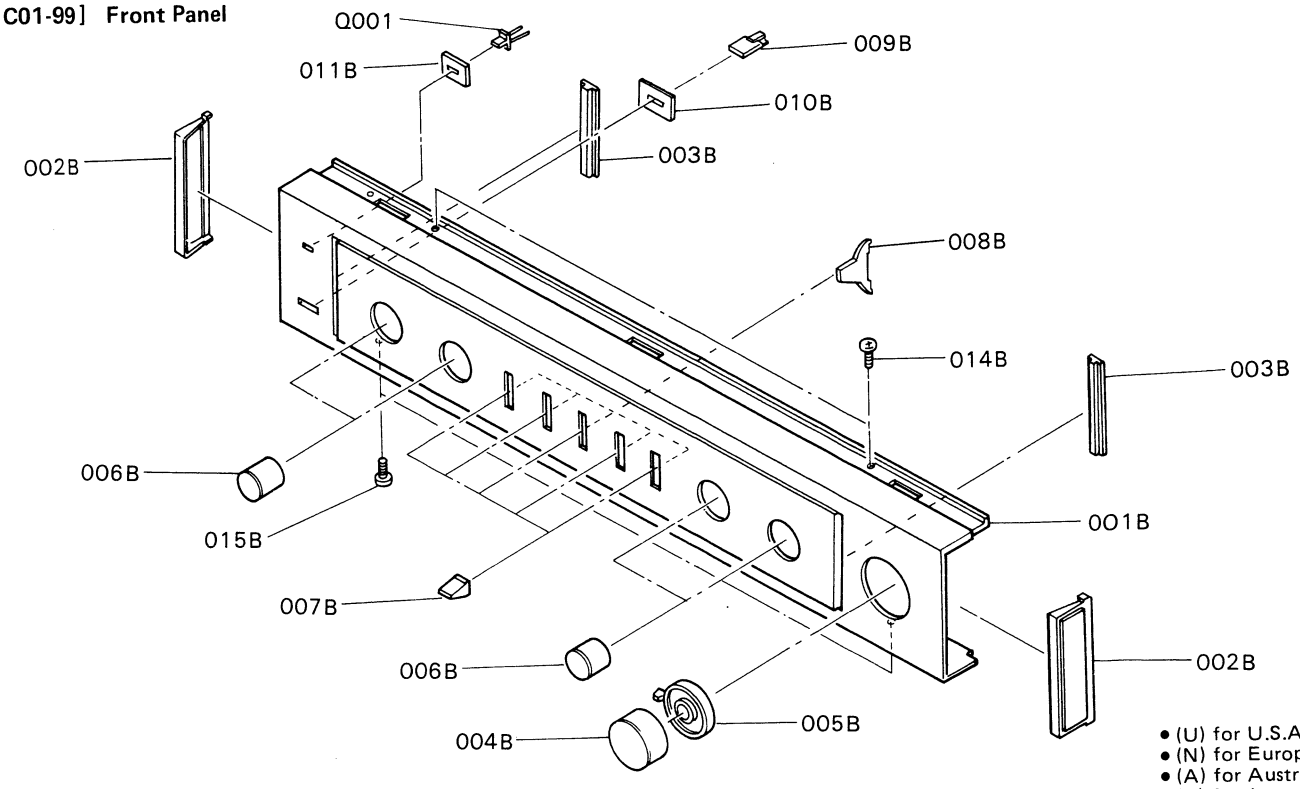
4.3 VR Assembly (PG00) Schematic Diagram and Component Locations





5. EXPLODED VIEW AND PARTS LIST

- [C01-99] **Front Panel**

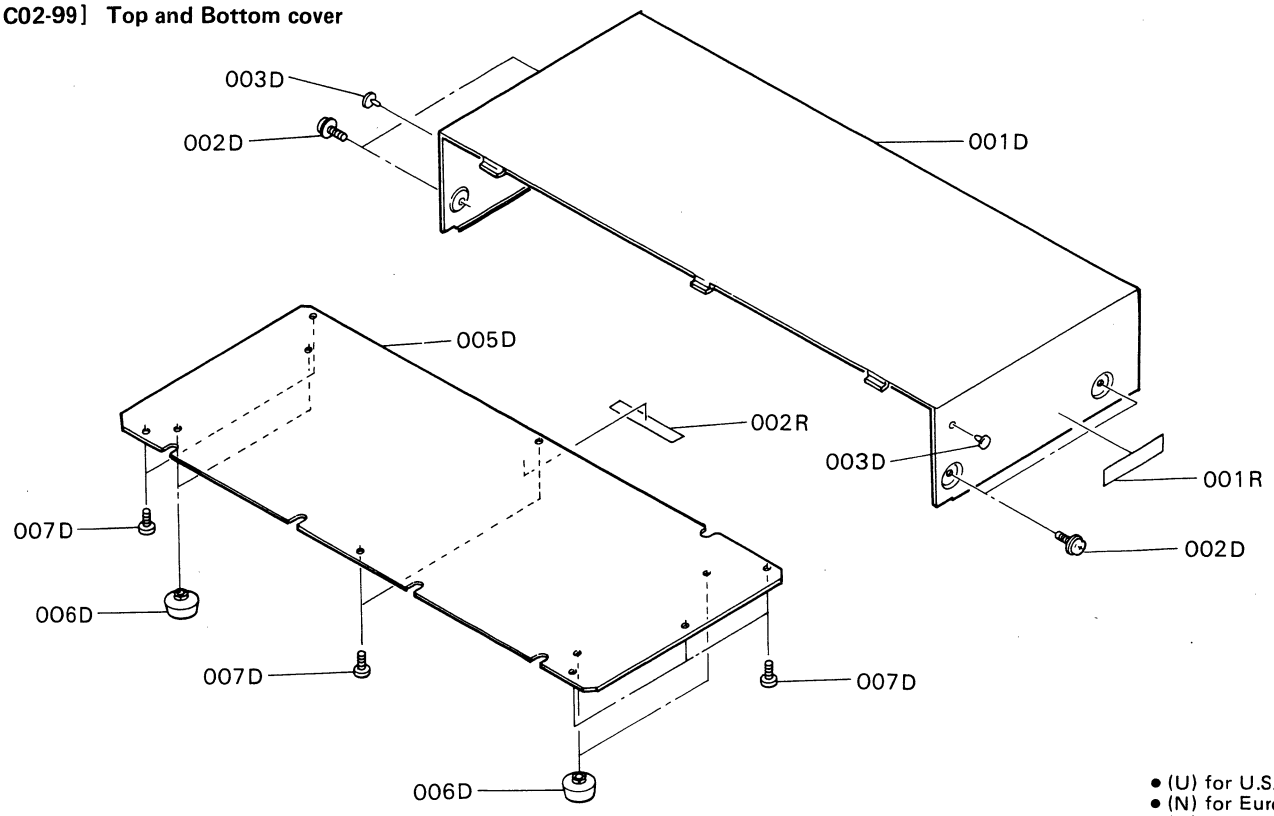


- (U) for U.S.A.
- (N) for Europe
- (A) for Australia
- (F) for Japan

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
A	1	1	1		125Z063400	Front Panel Assembly
A1				1	125Z063410	Front Panel Assembly
001B	1	1	1		125Z063010	Escutcheon, Front Panel
001B				1	125Z063110	Escutcheon, Front Panel
002B	2	2	2	2	403H067010	Cap
003B	2	2	2	2	403H063020	Escutcheon
008B	5	5	5	5	2144259010	Bushing, Lever Switch
010B	1	1	1	1	208H259010	Bushing, Power Switch
011B	1	1	1	1	008H118010	Spacer

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
004B	1				208H154130	Knob, Volume
004B		1	1	1	208H154030	Knob, Volume
005B	1				208H154140	Knob, Balance
005B		1	1	1	208H154040	Knob, Balance
006B	4				208H154120	Knob, Switch
006B		4	4	4	208H154020	Knob, Switch
007B	5	5	5	5	125Z154010	Knob, Lever Switch
009B	1	1	1	1	208H154060	Knob, Power Switch
014B	2	2	2	2	5130306B0	P.H. Tapped Screw P3x6
015B	2	2	2	2	5130306B0	P.H. Tapped Screw P3x6
Q001	1	1	1	1	HI10006320	L.E.D. GL-9NG9

● [C02-99] Top and Bottom cover



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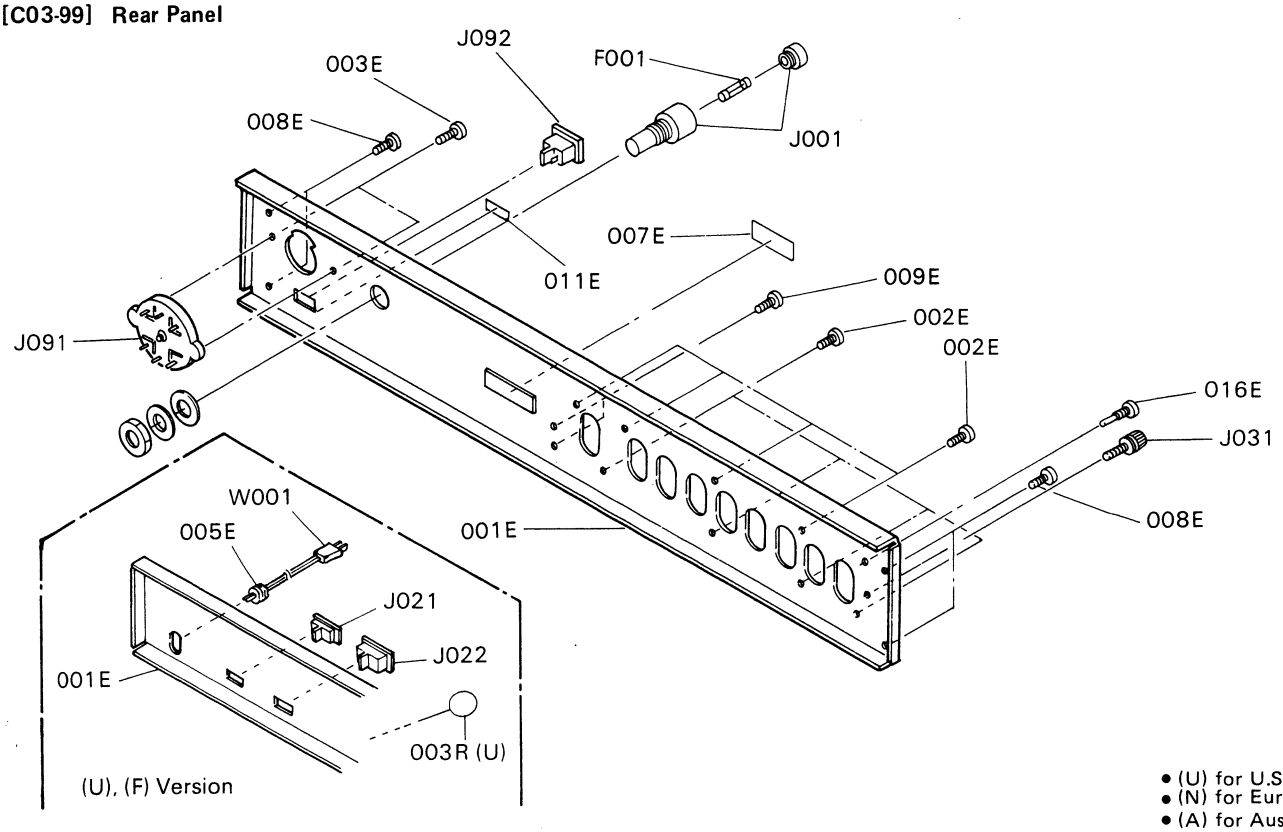
REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
001D	1	1	1	1	403H257010	Lid, Top Cover
002D	4				51260408Z0	B.T. Screw B4x8
002D		4	4	4	51260408U0	B.T. Screw B4x8
003D	2	2	2	2	2991259010	Bushing, Top Cover
005D	1	1	1	1	403H257020	Lid, Bottom Cover

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
006D	4	4	4	4	403H057010	Leg
007D	6				51280308B0	B.H. Tapped Screw B3x8
001R	1				2932861110	Label
001R		1	1		2932861010	Label Top Cover
002R	1	1	1		2578861010	Label Bottom Cover

- **[C03-99] Rear Panel**

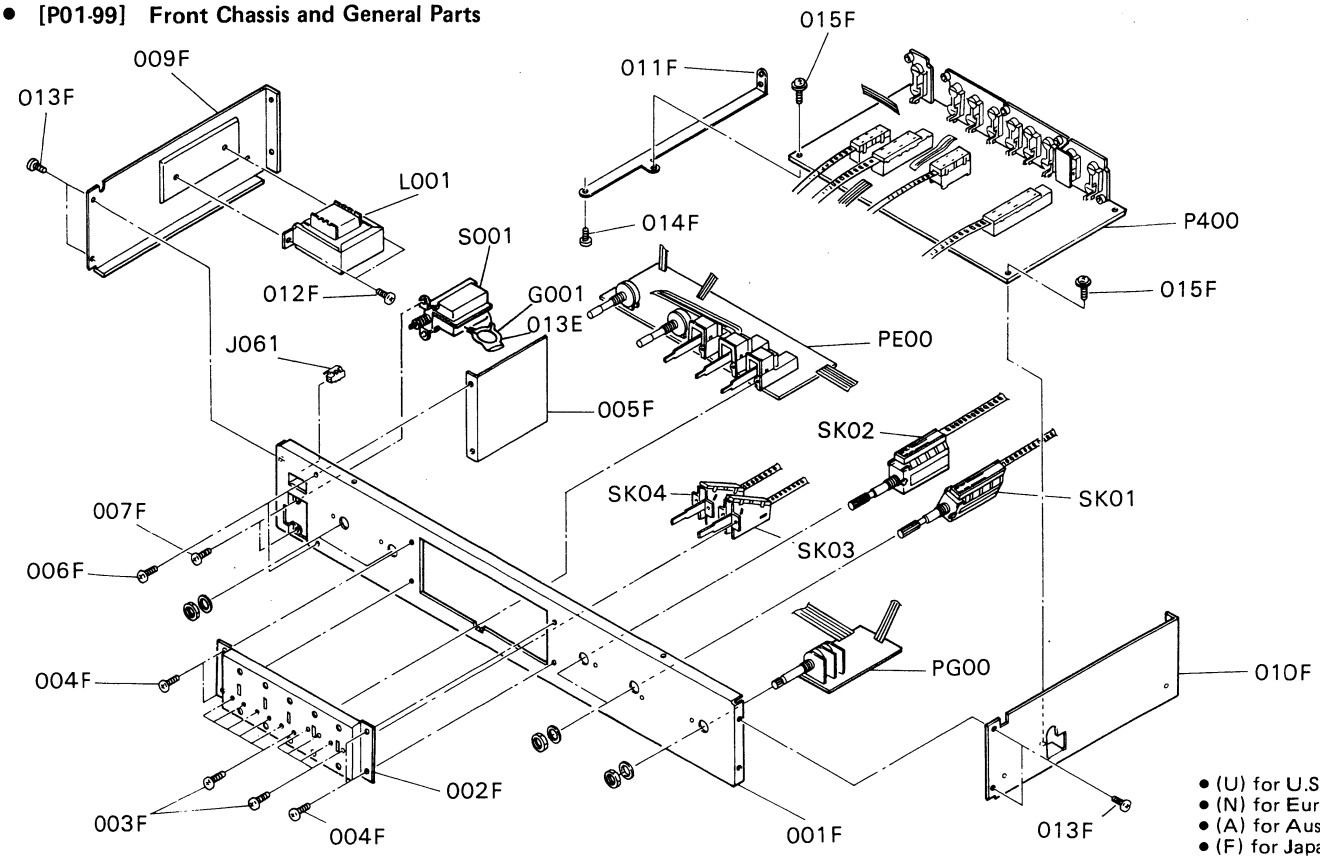


- (U) for U.S.A.
- (N) for Europe
- (A) for Australia
- (F) for Japan

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
001E	1				125Z160010	Bracket, Rear Panel
001E		1	1		125Z160020	Bracket, Rear Panel
001E				1	125Z160030	Bracket, Rear Panel
002E	8	8	8	8	51280308U0	B.H. Tapped Screw B3x8
003E		2	2		51280308U0	B.H. Tapped Screw B3x8
005E	1			1	1455259030	Bushing
007E	1	1	1	1	2112265010	Indicator
008E	4	4	4	4	51280308U0	B.H. Tapped Screw B3x8
009E	2	2	2	2	51280308U0	B.H. Tapped Screw B3x8
011E		1	1		4581861010	Label
016E	1	1	1	1	51704059B0	Spec. Set Screw
F001	1				FS10020500	Fuse 200mA 250V
F001		1			FS10020800	Fuse T200mA 250V
F001			1		FS10005800	Fuse T50mA 250V
F001				1	FS10020610	Fuse 200mA 250V

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
J001	1				YJ08000310	Jack, Fuse Holder
J001		1	1		YJ08000290	Jack, Fuse Holder
J001				1	YJ08000300	Jack, Fuse Holder
J021	1			1	YJ04000560	Jack, AC Outlet
J022	1			1	YJ04000560	Jack, AC Outlet
J031	1	1	1	1	YL03010250	Terminal, Ground
J091		1	1		BY05080010	Voltage Selector
J092		1	1		YP04000580	Plug, Inlet
W001	1				YC01900070	A.C. Power Cord
W001		1			ZC01805010	A.C. Power Cord
W001			1		ZC02006020	A.C. Power Cord
W001				1	YC01800190	A.C. Power Cord
003R	1				9511101070	Label UL

• [P01-99] Front Chassis and General Parts



- (U) for U.S.A.
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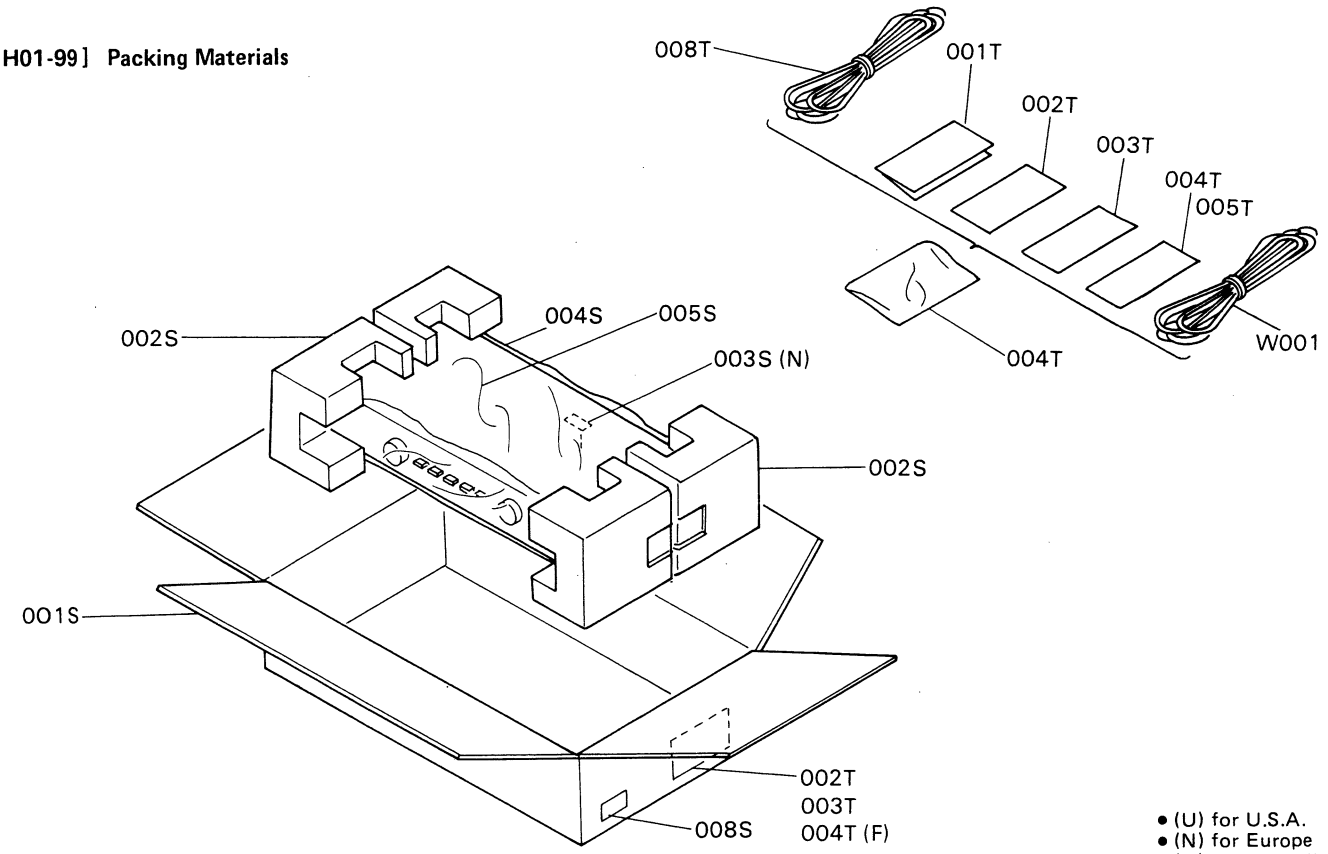
- (A) for Australia
- (F) for Japan

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
001F	1	1	1	1	125Z105010	Chassis, Front
002F	1	1	1	1	125Z160060	Bracket, Lever Switch
003F	10	10	10	10	51060306A9	P.H.M Screw P3x6
004F	4	4	4	4	51280306A9	B.H. Tapped Screw B3x6
005F	1	1	1	1	125Z109010	Shield
006F	2	2	2	2	51280308B0	B.H. Tapped Screw B3x8
007F	2	2	2	2	51060306A9	P.H.M. Screw P3x6
009F	1	1	1	1	125Z160040	Bracket, Left
010F	1	1	1	1	125Z160050	Bracket, Right
011F	1	1	1	1	125Z160070	Bracket, Center
012F	2	2	2	2	51280405B0	B.H. Tapped Screw B3x8
013F	4	4	4	4	51280308B0	B.H. Tapped Screw B3x8
014F	1	1	1	1	51280305B0	B.H. Tapped Screw B3x5
015F	2	2	2	2	51260308B0	B.T. Screw B3x8 B3x8
G001	1				DK18103530	Ceramic 0.01μF
G001		1	1		DK18103840	Ceramic 0.01μF
G001				1	DK18103850	Ceramic 0.01μF

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
J061	1	1	1	1	YJ05000350	Jack, LED
L001	1				TS14818010	Power Transformer
L001		1	1		TS14818020	Power Transformer
L001				1	TS14818030	Power Transformer
S001	1				SP01010420	Push Switch, Power
S001		1	1		SP01010390	Push Switch, Power
S001				1	SP01010430	Push Switch, Power
SK01	1	1	1	1	SR06050210	Rotary Switch
SK02	1	1	1	1	SR04060070	Rotary Switch
SK03	1	1	1	1	SC02030190	Switch, Input Selector
SK04	1	1	1	1	SC02020420	Switch, Tape mono
013E		1	1		403H120010	Insulator

• [H01-99] Packing Materials



- (U) for U.S.A.
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- (A) for Australia
- (F) for Japan

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
001S	1				125Z801010	Packing Case
001S		1	1		125Z801020	Packing Case
001S				1	125Z801030	Packing Case
002S	2	2	2	2	001H809010	Cushion
003S	1			1	2918107390	Sheet
003S		1			2731821010	Silicagel
004S	1	1	1	1	2918107360	Sheet
005S	1	1	1	1	9090909040	Polyethylene Sheet
008S	2				9526019010	Serial No. Card
008S		4			9526019060	Serial No. Card
008S			4		9526019030	Serial No. Card
008S				4	9526019040	Serial No. Card

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
001T	1		1		125Z851010	Instructions
001T		1			125Z851310	Instructions
001T				1	125Z851110	Instructions
002T	1		1		125Z851020	Instructions
002T		1			125Z851320	Instructions
002T				1	9631000110	Guarantee Card
003T	1				2818854020	Guarantee Card
003T		1			125Z856010	Circuit Diagram
003T			1		2205851040	Instructions
003T				1	2976851040	Instructions
004T	1				2225813010	Envelope
004T			1		9631000090	Guarantee Card
004T				1	2976813020	Envelope
005T				1	9650000030	S. Station Card
008T	1	1	1	1	ZD01000170	Connective Cord
W001	1				YC01900070	A.C. Power Cord
W001		1			ZC01805010	A.C. Power Cord
W001			1		ZC02006020	A.C. Power Cord
W001				1	YC01800190	A.C. Power Cord

6. ELECTRICAL PARTS LIST

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia
- (F) for Japan

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
						P400-PHONE AMP CIRCUIT BOARD
P400	1	1	1	1	YK212H1310	P.W. Board, Phone Amp
	1				ZZ212H1310	P.W. Board Assembly
		1	1		ZZ218H8310	P.W. Board Assembly
						P400-CAPACITORS
C401	1	1	1	1	EA10601630	Elect 10μF 16V
C402	1	1	1	1	EA10601630	Elect 10μF 16V
C403	1	1	1	1	EA10702530	Elect 100μF 25V
C404	1	1	1	1	EA10702530	Elect 100μF 25V
C405	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C406	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C407	1	1	1	1	EA10702530	Elect 100μF 25V
C408	1	1	1	1	EA10702530	Elect 100μF 25V
C409	1	1	1	1	DK16682300	Ceramic 6800pF ±10%
C410	1	1	1	1	DK16682300	Ceramic 6800pF ±10%
C411	1	1	1	1	DK16821300	Ceramic 820pF ±10%
C412	1	1	1	1	DK16821300	Ceramic 820pF ±10%
C413	1	1	1	1	EA10800630	Elect 1000μF 6.3V
C414	1	1	1	1	EA10800630	Elect 1000μF 6.3V
C415	1	1	1	1	DF15562300	Film 0.0056μF±5%
C416	1	1	1	1	DF15562300	Film 0.0056μF±5%
C417	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C418	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C419	1	1	1	1	DF15183300	Film 0.018μF±5%
C420	1	1	1	1	DF15183300	Film 0.018μF±5%
C421	1	1	1	1	DF15222300	Film 0.0022μF±5%
C422	1	1	1	1	DF15222300	Film 0.0022μF±5%
C423	1	1	1	1	EA47505030	Elect 4.7μF 50V
C424	1	1	1	1	EA47505030	Elect 4.7μF 50V
C425	1	1	1	1	DF16152300	Film 0.0015μF±10%
C426	1	1	1	1	DF16152300	Film 0.0015μF±10%
C801	1	1	1	1	EA33705030	Elect 330μF 50V
C802	1	1	1	1	EA33705030	Elect 330μF 50V
C803	1	1	1	1	EA22505030	Elect 2.2μF 50V
C804	1	1	1	1	DK16101300	Ceramic 100pF ±10%
C805	1	1	1	1	EA10701030	Elect 100μF 10V
C806	1	1	1	1	EA22603530	Elect 22μF 35V
C807	1	1	1	1	EA22505030	Elect 2.2μF 50V
C808	1	1	1	1	DK16101300	Ceramic 100pF ±10%
C809	1	1	1	1	EA22603530	Elect 22μF 35V
C810	1	1	1	1	DK18103560	Ceramic 0.01μF +80,−20%
C811	1	1	1	1	DK18103560	Ceramic 0.01μF +80,−20%
C812	1	1	1	1	DK18103560	Ceramic 0.01μF +80,−20%
C813	1	1	1	1	EA47605030	Elect 47μF 50V
CN01	1	1	1	1	EA22505030	Elect 2.2μF 50V
CN02	1	1	1	1	EA10702530	Elect 100μF 25V
						P400-RESISTORS (All Resistors are ±5% and ¼W)
R401	1	1	1	1	GD05101140	100Ω
R402	1	1	1	1	GD05101140	100Ω
R403	1	1	1	1	GD05363140	36kΩ
R404	1	1	1	1	GD05363140	36kΩ
R405	1	1	1	1	GD05913140	91kΩ
R406	1	1	1	1	GD05913140	91kΩ
R407	1	1	1	1	GD05913140	91kΩ
R408	1	1	1	1	GD05913140	91kΩ
R409	1	1	1	1	GD05624140	620kΩ
R410	1	1	1	1	GD05624140	620kΩ
R411	1	1	1	1	GD05124140	120kΩ
R412	1	1	1	1	GD05124140	120kΩ
R413	1	1	1	1	GD05221140	220Ω
R414	1	1	1	1	GD05221140	220Ω
R415	1	1	1	1	GD05473140	47kΩ
R416	1	1	1	1	GD05473140	47kΩ
R417	1	1	1	1	GD05102140	1kΩ
R418	1	1	1	1	GD05102140	1kΩ
R419	1	1	1	1	GD05473140	47kΩ
R420	1	1	1	1	GD05473140	47kΩ
R421	1	1	1	1	GD05473140	47kΩ
R422	1	1	1	1	GD05473140	47kΩ
R423	1	1	1	1	GD05331140	330Ω
R424	1	1	1	1	GD05331140	330Ω
R425	1	1	1	1	GD05104140	100kΩ
R426	1	1	1	1	GD05104140	100kΩ
R427	1	1	1	1	GD05151140	150Ω
R428	1	1	1	1	GD05151140	150Ω
R429	1	1	1	1	GD05151140	150Ω
R430	1	1	1	1	GD05151140	150Ω
R431	1	1	1	1	GD05270140	27Ω
R432	1	1	1	1	GD05270140	27Ω
R433	1	1	1	1	GD05123140	12kΩ
R434	1	1	1	1	GD05123140	12kΩ
R435	1	1	1	1	GD05681140	680Ω
R436	1	1	1	1	GD05681140	680Ω
R437	1	1	1	1	GD05154140	150kΩ
R438	1	1	1	1	GD05154140	150kΩ
R439	1	1	1	1	GD05562140	5.6kΩ
R440	1	1	1	1	GD05562140	5.6kΩ
R441	1	1	1	1	GD05104140	100kΩ
R442	1	1	1	1	GD05104140	100kΩ
R443	1	1	1	1	GD05471140	470Ω
R444	1	1	1	1	GD05471140	470Ω
R445	1	1	1	1	GD05101140	100Ω
R446	1	1	1	1	GD05101140	100Ω
R447	1	1	1	1	GD05101140	100Ω
R448	1	1	1	1	GD05101140	100Ω
R801	1	1	1	1	GD05153140	15kΩ
R802	1	1	1	1	GD05392140	3.9kΩ
R803	1	1	1	1	GD05392140	3.9kΩ
R804	1	1	1	1	GD05562140	5.6kΩ
R805	1	1	1	1	GD05163140	16kΩ
R806	1	1	1	1	GD05153140	15kΩ
R807	1	1	1	1	GA05152010	1.5kΩ 1W
RN01	1	1	1	1	GD05203140	20kΩ
RN02	1	1	1	1	GD05103140	10kΩ
RN03	1	1	1	1	GD05104140	100kΩ
RN04	1	1	1	1	GD05512140	5.1kΩ
RN05	1	1	1	1	GD05623140	62kΩ
RN06	1	1	1	1	GD05101140	100Ω
RN07	1	1	1	1	GD05271140	270Ω
RN08	1	1	1	1	GD05474140	470kΩ
RN09	1	1	1	1	GD05474140	470kΩ

- (U) for U.S.A.
- (N) for Europe
- (A) for Australia
- (F) for Japan

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
						P400-SEMICONDUCTORS
Q401	1	1	1	1	HT109912B0	Transistor 2SA991(F, E)
Q402	1	1	1	1	HT109912B0	Transistor 2SA991(F, E)
Q403	1	1	1	1	HT109912B0	Transistor 2SA991(F, E)
Q404	1	1	1	1	HT109912B0	Transistor 2SA991(F, E)
Q405	1	1	1	1	HC10055050	IC TA7322P
Q406	1	1	1	1	HC10055050	IC TA7322P
Q801	1	1	1	1	HD20015030	Diode DS135D
Q802	1	1	1	1	HD20015030	Diode DS135D
Q803	1	1	1	1	HF201632A0	F.E.T 2SK163(L, M)
Q804	1	1	1	1	HT408632B0	Transistor 2SD863(E, F)
Q805	1	1	1	1	HT323202B0	Transistor 2SC2320(E, F)
Q806	1	1	1	1	HF201632A0	F.E.T. 2SK163(L, M)
Q807	1	1	1	1	HT207642B0	Transistor 2SB764(E, F)
Q808	1	1	1	1	HT110151B0	Transistor 2SA1015(Y)
Q809	1	1	1	1	HD30008010	Zener HZ6L
Q810	1	1	1	1	HD20010010	Diode 1S2076
Q811	1	1	1	1	HD20015030	Diode DS135D
QN01	1	1	1	1	HT323202B0	Transistor 2SC2320(E, F)
QN02	1	1	1	1	HT323202B0	Transistor 2SC2320(E, F)
QN03	1	1	1	1	HD20010010	Diode 1S2076
QN04	1	1	1	1	HD30075090	Zener WZ-110
QN05	1	1	1	1	HD20010010	Diode 1S2076
						P400-SWITCHES
S401	1	1	1	1	SS06060040	Slide Switch, Phono Selector
S402	1	1	1	1	SR00050080	Rotary Switch, Phono Selector
SW01	1	1	1	1	SS04060020	Slide Switch, Rec. Selector
SW02	1	1	1	1	SS02030120	Slide Switch, Input Selector
SW03	1	1	1	1	SS02020670	Slide Switch, Tape, Mon, Selector
SW04	1	1	1	1	SR00060030	Rotary Switch, Rec. Selector
SW05	1	1	1	1	SC00030030	Switch, Input Selector
SW06	1	1	1	1	SB11560010	Switch Band Flx.
SW07	1	1	1	1	SC00030030	Switch, Tape Mon. Selector
SW08	1	1	1	1	SB11200010	Switch Band Flx.
						P400-RELAY
LN01	1	1	1	1	LY20240160	Relay
						P400-TERMINALS
JW01	1	1	1	1	YT02060130	Terminal, RCA Jack 6P
JW02	1	1	1	1	YT02060130	Terminal, RCA Jack 6P
JW03	1	1	1	1	YT02020210	Terminal, RCA Jack 2P
J401	1				YT02040330	Terminal, RCA Jack 4P
J401		1	1	1	YT02040260	Terminal, RCA Jack 4P
						P400-JAMPERS
W401	1	1	1	1	YU03070260	Jamper Lead, 3Px70mm
W402	1	1	1	1	YU04060260	Jamper Lead, 4Px60mm
W403	1	1	1	1	YU03240260	Jamper Lead, 3Px240mm
W404	1	1	1	1	YU03300260	Jamper Lead, 3Px300mm

REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
						PE00-TONE CONTROL CIRCUIT BOARD
PE00	1	1	1	1	YK212H1320	P.W. Board, Tone Control
	1	1	1		ZZ212H1320	P.W. Board Assembly
						PE00-CAPACITORS
CE01	1	1	1	1	DF16473300	Film 0.047μF±10%
CE02	1	1	1	1	DF16473300	Film 0.047μF±10%
CE03	1	1	1	1	DF16823300	Film 0.082μF±10%
CE04	1	1	1	1	DF16823300	Film 0.082μF±10%
CE05	1	1	1	1	DF15243300	Film 0.024μF±10%
CE06	1	1	1	1	DF15243300	Film 0.024μF±10%
CE07	1	1	1	1	EA10505030	Elect 1μF 50V
CE08	1	1	1	1	EA10505030	Elect 1μF 50V
CE09	1	1	1	1	EA10702530	Elect 100μF 25V
CE10	1	1	1	1	EA10702530	Elect 100μF 25V
CE11	1	1	1	1	EA10702530	Elect 100μF 25V
CE12	1	1	1	1	EA10702530	Elect 100μF 25V
CE13	1	1	1	1	DK16331300	Ceramic 330pF ±10%
CE14	1	1	1	1	DK16331300	Ceramic 330pF ±10%
CE15	1	1	1	1	DD15220300	Ceramic 22pF ±5%
CE16	1	1	1	1	DD15220300	Ceramic 22pF ±5%
CE17	1	1	1	1	EA10505030	Elect 1μF 50V
CE18	1	1	1	1	EA10505030	Elect 1μF 50V
CE19	1	1	1	1	EA47601030	Elect 47μF 10V
CE20	1	1	1	1	EA47601030	Elect 47μF 10V
CE21	1	1	1	1	DF16222300	Film 0.0022μF±10%
CE22	1	1	1	1	DF16222300	Film 0.0022μF±10%
CE23	1	1	1	1	DF16223300	Film 0.022μF±10%
CE24	1	1	1	1	DF16223300	Film 0.022μF±10%
CE25	1	1	1	1	DF16123300	Film 0.012μF±10%
CE26	1	1	1	1	DF16123300	Film 0.012μF±10%
CE27	1	1	1	1	DF16104300	Film 0.1μF ±10%
CE28	1	1	1	1	DF16104300	Film 0.1μF ±10%
						PE00-RESISTORS (All Resistors are ±5% and ¼W)
RE01	1	1	1	1	GD05822140	8.2kΩ
RE02	1	1	1	1	GD05822140	8.2kΩ
RE03	1	1	1	1	GD05334140	330kΩ
RE04	1	1	1	1	GD05334140	330kΩ
RE05	1	1	1	1	GD05101140	100Ω
RE06	1	1	1	1	GD05101140	100Ω
RE07	1	1	1	1	GD05101140	100Ω
RE08	1	1	1	1	GD05101140	100Ω
RE09	1	1	1	1	GD05104140	100kΩ
RE10	1	1	1	1	GD05104140	100kΩ
RE11	1	1	1	1	GD05152140	1.5kΩ
RE12	1	1	1	1	GD05152140	1.5kΩ
RE13	1	1	1	1	GD05334140	330kΩ
RE14	1	1	1	1	GD05334140	330kΩ
RE15	1	1	1	1	GD05363140	36kΩ
RE16	1	1	1	1	GD05363140	36kΩ
RE17	1	1	1	1	GD05302140	3kΩ
RE18	1	1	1	1	GD05302140	3kΩ
RE19	1	1	1	1	GD05133140	13kΩ
RE20	1	1	1	1	GD05133140	13kΩ

- (U) for U.S.A.
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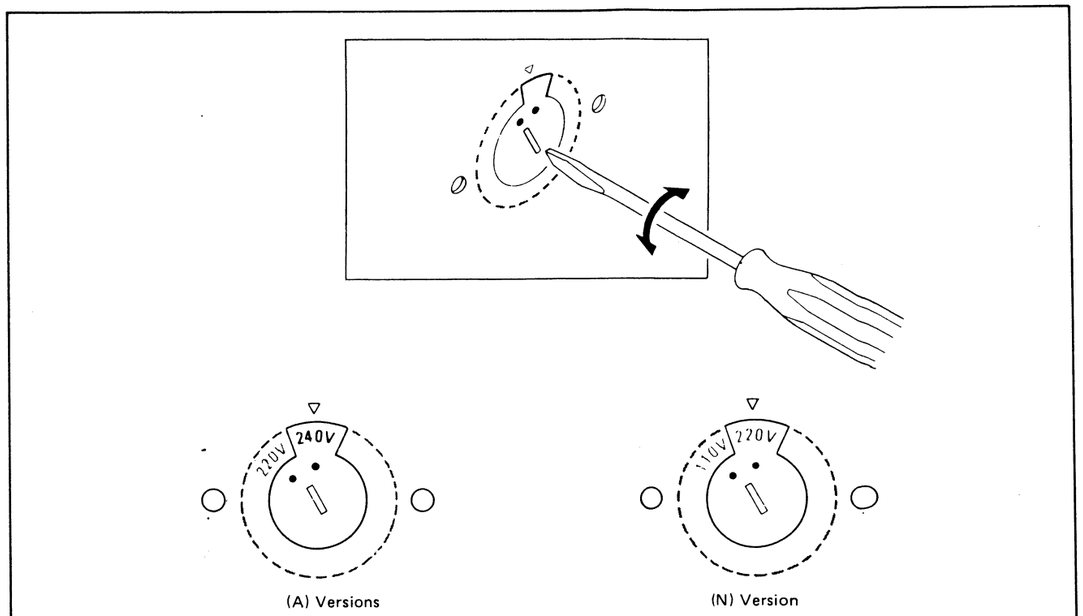
REF. DESIG.	Q'TY U	N	A	F	PART NO.	DESCRIPTION
RE21	1	1	1	1	GD05331140	330Ω
RE22	1	1	1	1	GD05331140	330Ω
RE23	1	1	1	1	GD05472140	4.7kΩ
RE24	1	1	1	1	GD05472140	4.7kΩ
RE25	1	1	1	1	GD05471140	470Ω
RE26	1	1	1	1	GD05471140	470Ω
RE27	1	1	1	1	GD05331140	330Ω
RE28	1	1	1	1	GD05331140	330Ω
RE29	1	1	1	1	GD05303140	30kΩ
RE30	1	1	1	1	GD05303140	30kΩ
RE31	1	1	1	1	GD05272140	2.7kΩ
RE32	1	1	1	1	GD05272140	2.7kΩ
RE33	1	1	1	1	GD05221140	220Ω
RE34	1	1	1	1	GD05221140	220Ω
RE35	1	1	1	1	GD05102140	1kΩ
RE36	1	1	1	1	GD05102140	1kΩ
RE51	1	1	1	1	RM01040440	Variable 100kΩ(C)x2
RE52	1	1	1	1	RM01040440	Variable 100kΩ(C)x2
						PE00-SEMICONDUCTORS
QE01	1	1	1	1	HC10055050	IC TA7322P
QE02	1	1	1	1	HC10055050	IC TA7322P
						PE00-SWITCHES
SE01	1	1	1	1	SC02030200	Switch, Loudness
SE02	1	1	1	1	SC02020430	Switch, Low Filter
SE03	1	1	1	1	SC02030200	Switch, Tone
						PG00-VR CIRCUIT BOARD
PG00	1	1	1	1	YK212H1330	P.W. Board, VR
	1	1	1		ZZ212H1330	P.W. Board Assembly
						PG00-RESISTORS (All Resistors are ±5% and ¼W)
RG01	1	1	1	1	RQ02040060	Variable 100k/200kΩ Vol./Bal.
RG02	1	1	1	1	GD05472140	4.7kΩ
RG03	1	1	1	1	GD05472140	4.7kΩ

W01-99	Assembly and Wiring
T01-99	Adjustment
X01-99	Correction

7. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

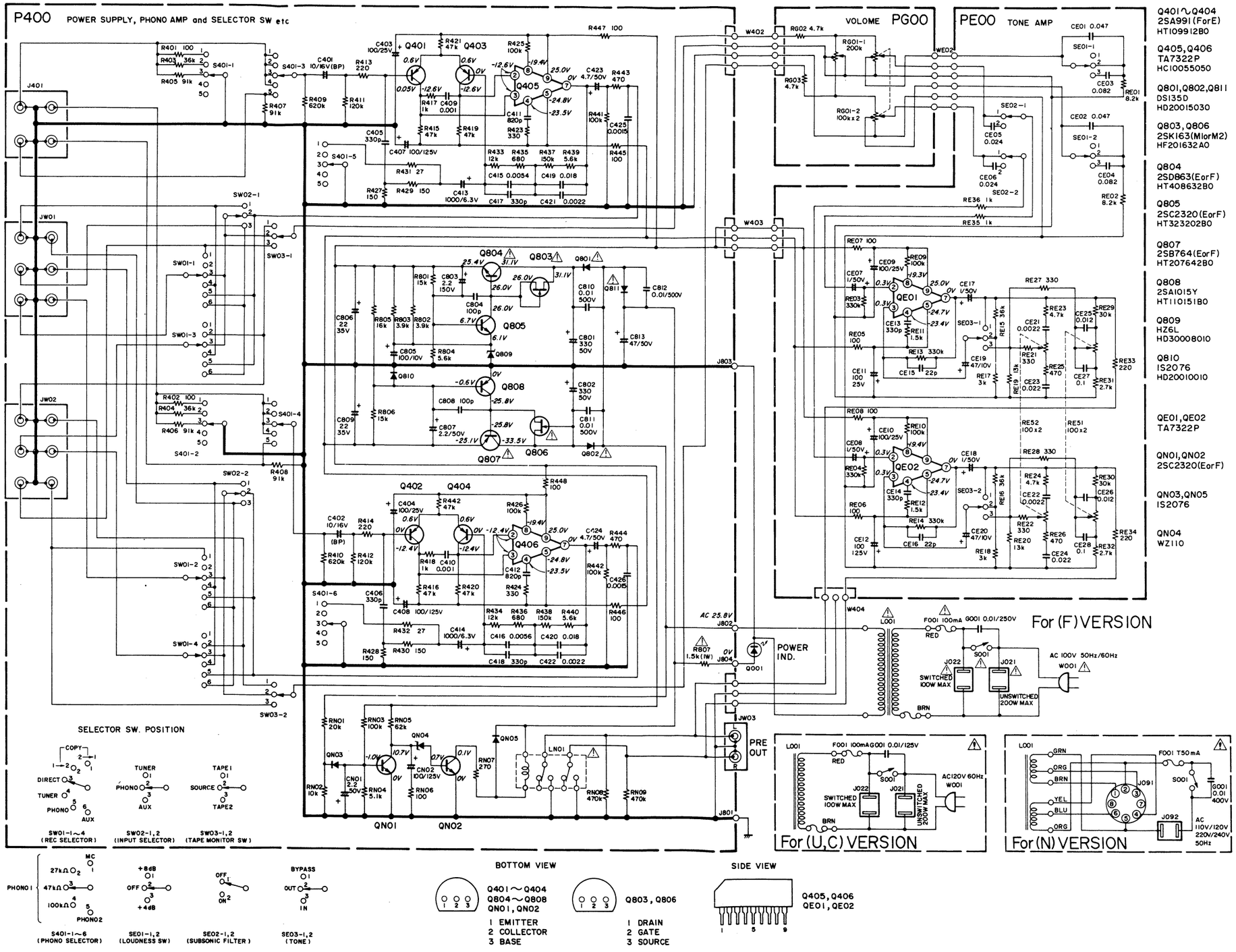
CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.



(A) Versions (N) Version

NOTE ON SAFETY: THE PARTS MARKED ⚠ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

8. SCHEMATIC DIAGRAM



Q401~Q404
2SA991(ForE)
HT109912B0

Q405,Q406
TA7322P
HC10055050

Q801,Q802,Q811
DSI35D
HD20015030

Q803,Q806
2SK163(MIorM2)
HF201632A0

Q804
2SD863(EorF)
HT408632B0

Q805
2SC2320(EorF)
HT323202B0

Q807
2SB764(EorF)
HT207642B0

Q808
2SA1015Y
HT110151B0

Q809
HZ6L
HD30008010

Q810
IS2076
HD20010010

QE01,QE02
TA7322P

QN01,QN02
2SC2320(EorF)

QN03,QN05
IS2076

QN04
WZ110

Note on safety: The parts marked with ⚠ are important parts on the safety.
Please use the parts having the designated parts number without fail.

Components and wiring are subject to change for modification without notice.

9. TECHNICAL SPECIFICATIONS

Input Terminals

Phono (MM):	Frequency Response (RIAA)		±0.5 dB
	Signal-to-Noise Ratio (IHF-A Network)		84 dB
	Input Impedance	Phono 1 MM	27k/47k/100k ohms
		Phono 2 MM	47k ohms
	Input Sensitivity		2.8 mV
	Input Equivalent Noise		0.24 μV
	Dynamic Range (Ratio of input overload to equivalent input noise)		120 dB
	Signal-to-Noise Ratio (IHF-A Network)		66 dB
Phono (MC):	Input Impedance		100 ohms
	Input Sensitivity		220 μV
Aux:	Input Impedance		37k ohms
	Input Sensitivity		150 mV
	Frequency Response (±1 dB)		5 Hz—100 kHz

Output Voltage, 1 kHz

Tape Out	430 mV
Pre Out	1.5 V

Output Impedance, 1 kHz

Tape Out	470 ohms
Pre Out	220 ohms

GENERAL

Power Requirements . . . . . 220 V AC, 50 Hz
(E and N versions are featuring an external vostage selector.
Other versions can be converted by a qualified technician to operate on 240V.)

Power Consumption . . . . . 29 W

Dimensions

Panel Width	416 mm (16-3/8 inches)
Panel Height	73 mm (2-7/8 inches)
Depth	193 mm (7-5/8 inches)

Weight

Unit alone	2.9 kg

Specifications and appearance are subject to change for modification without notice.